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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,480	09/30/2003	Ali-Reza Adl-Tabatabai	42P17036	7520
8791	7590 06/08/2006	•	EXAMINER	
	Y SOKOLOFF TAYL	KROFCHECK, MICHAEL C		
12400 WIL	SHIRE BOULEVARD		1 nm i num	DADED MIMDED
SEVENTH FLOOR			ART UNIT	PAPER NUMBER
LOS ANG	ELES, CA 90025-1030	2186		
			DATE MAILED: 06/08/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/676,480	ADL-TABATABAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Krofcheck	2186				
The MAILING DATE of this communication app		orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above; the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 17 Ap	oril 2006.					
·						
3)⊠ Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
·						
	Claim(s) 1,3,5,7-25,27-38,40-42,44,45 and 47 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1,3,5,7,8,10-25,27-38,42,44,45 and 47</u> is/are allowed. 6)□ Claim(s) is/are rejected.						
7) Claim(s) 9,40 and 41 is/are objected to	• • • • • • • • • • • • • • • • • • • •					
8) Claim(s) are subject to restriction and/or	election requirement.					
		•				
Application Papers	•					
9) The specification is objected to by the Examiner	•					
10) \boxtimes The drawing(s) filed on <u>30 September 2003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the c	- · ·					
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	•					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	•					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (F 10-132)				

Application/Control Number: 10/676,480

Art Unit: 2186

DETAILED ACTION

1. This office action is in response to the RCE filed on 4/17/2006, entering the after final amendment filed on 3/27/2006.

- 2. Claims 1,5, 8, 9, 23, 28-29, 41-42, 44-45 have been amended.
- 3. The objections/rejections from the prior correspondence not restated herein have been withdrawn.
- 4. This application is in condition for allowance except for the following formal matters:

Claim Objections

5. Claims 9, 40-41 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

The test for a proper dependent claim is whether the dependent claim includes every limitation of the parent claim. The test is not whether the claims differ in scope. A proper dependent claim shall not conceivably be infringed by anything which would not also infringe the basic claim.

The parent claims (1 and 35) of claims 9 and 40-41 state that the companion encoding bits are disregarded if the cache line is compressed. If the cache line is compressed and the respective bits are disregarded, then they cannot be used to encode the ordering of companion lines, or select the compression algorithm because they are being disregarded, i.e. it is like the bits are not there. This discrepancy causes

claims 9, and 40-41 to fail the infringement test (MPEP § 608.01(n), "Infringement Test").

The applicant may wish to use language similar to that as in claims 12 and 28, which says that *tag comparison logic* ignores the companion encoding bits if the cache line is compressed, in the independent claims where disregarding the companion encoding bits is mentioned to clarify that the respective bits are not completely ignored to the extent that they do not exist, but only ignored relative to the tag comparison logic.

Allowable Subject Matter

- 6. Claims 1,3,5,7,8,10-25,27-38,42,44,45 and 47 are allowed.
- 7. The indicated allowability of claim 40 is withdrawn in view of the above objection.
- 8. Claims 9, 40-41 would be allowable if rewritten to overcome the objection(s), set forth in this Office action.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dye, et al., US patent 6523102 teaches of ignoring lower address bits based on the size of the page being cached.
- 10. Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.
- 11. A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

.Application/Control Number: 10/676,480

Art Unit: 2186

12. Any inquiry concerning this communication or earlier communications from the

Page 4

examiner should be directed to Michael C. Krofcheck whose telephone number is 571-

272-8193. The examiner can normally be reached on Monday - Friday.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matt Kim can be reached on 571-272-4182. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free)

Michael C. Krofcheck

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100